ENVIRONMENTAL MANAGEMENT (ENVM)

Dr. Mark A. Ouimette, Program Director

This program is designed to prepare graduates to assume management positions in the environmental service/compliance sector of public and private enterprises. It is an interdisciplinary program, drawing on a spectrum of campus wide expertise, to craft a series of environmental management courses specifically designed for the program, always with real world application in mind. Two degree tracks are available; a thesis track and a professional track, which utilizes an internship to bridge the graduate's transition from the academic to the professional world.

ADMISSION CRITERIA

Applicants for graduate study in Environmental Management must hold a bachelor's degree from a regionally accredited college or university. Admission to the program requires the program director's endorsement, which will be based on evaluation of the following elements:

1. Prior academic performance, which will be evaluated in regard to (1) overall G.P.A., (2) G.P.A. in natural sciences, (3) overall upper level G.P.A., (4) previous graduate course work, and (5) fulfillment of necessary prerequisites (see below). An overall G.P.A. of 2.7 or a G.P.A. of 3.0 in either natural science courses, upper level courses, or graduate courses is considered the norm.
2. If required, a Graduate Record Exam (GRE) score for the verbal and quantitative subsets or a full scale Graduate Management Admission Test (GMAT) score. Scores at the 50th percentile or higher are considered the norm.
3. A writing sample [personal essay] concerning the applicant's reason for applying and how the completion of the program will serve the applicants career goals.
4. Occupational experience in either the environmental or health and safety field [include in the writing sample #3].
5. An interview with the program director.

EARLY ADMISSION OPTION (Combined BS/MS Degrees)

This option is for undergraduate students at HSU who are enrolled in the Environmental Science minor and desires to pursue the MS degree in Environmental Management (ENVM). With proper scheduling it is possible for a student to acquire both BS and MS degrees within five years. Students in their senior year who meet the entrance requirements for the ENVM program may be admitted to the program and take ENVM courses for graduate credit. Six hours of ENVM coursework (to include ENVM 5311) will count towards the student's baccalaureate degree and reduce the hours required for the MS degree by a like amount. Successful applicants may then attempt an additional 9 semester hours of graduate course work, completing the first year of the ENVM program. Students who pursue this early admission option and are not subsequently admitted to the ENVM program or do not complete the program, will

receive their baccalaureate degree, provided that all undergraduate degree requirements are met.

PREREQUISITES

While interdisciplinary in nature, and accepting candidates with a variety of undergraduate degrees, this program is technical and scientific. Two semesters each of Biology, Chemistry, and Geology, or the equivalent, are ideal for admission. Students lacking all or part of these requirements, however, may still enroll in the program. Two Environmental Science courses are required for the program (ENVM 5311 and 6311).

NOTE: The program director in consultation with the student will determine if other prerequisite course work is lacking and indicate the leveling work (if any) which will be required. Substitution and/or equivalency decisions for the listed prerequisite courses or transfer of any graduate hours must be recommended by the program director and approved by the Dean of Graduate Studies.

GRADUATION REQUIREMENTS

Successful completion of the curriculum, successful completion of thesis (if applicable), and successful completion of the comprehensive examination fulfills the requirements of the degree.

TRANSFER CREDIT

Work completed before the student applies for admission at HSU, or completed another institution after admission to HSU may transfer if: 1) it is graduate work from a regionally accredited institution of higher education; 2) an official transcript of the work is on file in the Office of Graduate Studies; 3) the work was completed during the last 10 years; and 4) it is approved by the appropriate program or department. A maximum of six semester hours may be transferred from a previously completed degree.

CURRICULUM

CORE CURRICULUM:

ENVM	5X99	Short Courses	3
ENVM	5311	Environmental Science I	3
ENVM	5340	Environmental Laws and Regulations	3
ENVM	5336	Environmental Economics **OR**	
ENVM	6311	Environmental Science II	3
ENVM	6320	Toxicology and Industrial Hygiene	3
ENVM	6330	Technical Writing	3
ENVM	6260	Pollution Detection Methodology	2
ENVM	6370	Environmental Risk Assessment	3
ENVM	6371	Environmental Management Simulation	3
ENVM	6172	Environmental Management Seminar	1
		Total Hours	**27**

PROFESSIONAL TRACK:

Core Curriculum			27
ENVM	6473	Environmental Management Internship	4

ENVM 6099 Special Topics		3
	Total Hours	**34**

**THESIS TRACK: ****see note on next page*

Core Curriculum		27
Thesis		6
	Total Hours	**33**

**NOTE: The thesis track may require additional leveling work beyond that required as prerequisites for admission to the program.*

THESIS

Under close supervision, the student will complete original research of a topic to be determined jointly by the student and thesis advisor, with the approval of the program director. The thesis advisor will be a graduate faculty member chosen by the student and approved by the program director. Once the student begins work on the thesis, continuous enrollment in either Thesis or Thesis Renewal is required for all fall and spring semesters until completion of the thesis. Summer enrollment is required if the student anticipates working on the thesis or completing his/her degree during either summer term. *NOTE: A thesis process fee is assessed.*

COMPREHENSIVE EXAM

During the final nine hours (or final semester) of course work, the student should request in writing to his/her faculty advisor permission to take the comprehensive exam. The exam will be administered by a committee of three graduate environmental management faculty recommended by the program director and approved by the Dean of Graduate Studies.

TIME LIMIT

All work required for a Master of Science degree in Environmental Management must be completed within a period of five years from semester of first admission.

COURSES

Note: By action of the Graduate Council and Graduate Faculty, all students must have a minimum of 50% of their curriculum in 6000 level courses.

ENVM 5099 Short Courses (1 –3 hours credit)
A special topics course which is concentrated, highly specific, and imparts time labile information. A lab and materials fee may be assessed.

ENVM 5311 Environmental Science I (3-3-0)
An introduction to the principles and issues of environmental science with an emphasis on the management of physical and biological resources for sustained human development.

ENVM 5336 Environmental Economics (3-3-0)
An economic analysis of environmental policy and the allocation of resources. Examines the benefits and costs of development of natural resources and impacts growth on the environment.

ENVM 5340 Environmental Laws and Regulations (3-3-0)
A survey of federal, state, and local environmental regulatory agencies and the regulations that are required by these agencies. *Course requires Internet access.*

ENVM 6099 Special Topics (1-3 hours credit)
A course designed to meet special educational opportunities. The course may be repeated as subject matter changes.

ENVM 6172 Environmental Management Seminar (1-1-0)
Weekly meetings consisting of speakers/directed discussions on current issues in environmental trends. *Prerequisite:Instructor's consent. Course requires Internet access.*

ENVM 6260 Pollution Detection (2-1-1)
A survey of laboratory and field techniques for pollution detection with an emphasis on interpretation of results and quality control parameters. *Prerequisites: ENVM 6102 and ENVM 6103, or equivalent, or permission of instructor.*

ENVM 6311 Environmental Science II (3-3-0)
A detailed look into principles and issues of environmental science with an emphasis on the management of earth and natural resources for sustained human development.

ENVM 6320 Toxicology and Industrial Hygiene (3-3-0)
An introduction to the principles of toxicology and industrial hygiene with an emphasis on the management of a safe and healthy work environment and the regulations pertaining thereto. *Prerequisites: ENVM 6101 and 6102 or instructor's consent. Course requires Internet access.*

ENVM 6330 Technical Writing (3-3-0)
The acquired skill of writing for legal, economic, and procedural direction. The development within the student of a clear sense of intent, audience needs, and the specific demands of textual organization.

ENVM 6370 Environmental Risk Assessment (3-3-0)
A survey of economic/ecology issues involved in development and maintenance of the environment. Topics include risk assessment, optimal resource utilization, externalities, regulatory and policy issues of the environment, pollution, and the impact of economic growth on the environment. *Course requires Internet access.*

ENVM 6371 Environmental Management Simulation (3-3-X)
An interactive workshop utilizing computer simulation and group discussion to develop cognitive skills. *Prerequisite: ENVM 5340. Requires Internet access.*

ENVM 6391, 6392 Thesis (3-3-0)
A thesis processing fee will be assessed.
Note: Continuous enrollment in Thesis or Thesis Renewal is required for all

fall and spring semesters until completion. Summer enrollment is required if the student anticipates working on the thesis or completing the degree during either summer term.

ENVM 6193 Thesis Renewal (1-1-0)
A graduate student who as already enrolled for six hours of thesis credit (6391 and 6392) will be expected to be continuously enrolled for all fall and spring semesters. Summer enrollment is required if the student anticipates working on the thesis or completing the degree during either summer term.

ENVM 6473 Environmental Management Internship (4-0-4)
Exposure of the student to the practice of environmental management in a professional setting. *Prerequisite: Consent of instructor. Course requires Internet access.*